

CITY OF SANTA BARBARA **PUBLIC WORKS DEPARTMENT**



**PUBLIC WORKS DEPARTMENT**



PUBLIC WORKS DEPARTMENT – WATER RESOURCES DIVISION
SEWER LATERAL INSPECTION PROGRAM
CERTIFICATION PROGRAM


2017 Training Session

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TRAINING OBJECTIVES


- Review of the scope and intent of the City's Sewer Lateral Inspection Program;
- Review of the City's standard inspection form and direction for completion;
- Specifications for the video inspection;
- Review of forms and procedures for completion.



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SEWER LATERAL INSPECTION PROGRAM

ORDINANCE OVERVIEW

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SEWER LATERAL INSPECTION PROGRAM

- Commercial
 - Goal: Inspect all by 2023
 - 10 year re-inspection frequency
 - Condominiums and Multi-Unit residential are included in “Commercial”
- Residential
 - Spill from lateral occurs
 - Observing private sewer lateral defects during inspection of City mains
 - 400 SQ feet or more of new construction or adding 2 or more new plumbing fixtures.

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SEWER LATERAL INSPECTION PROGRAM

Other Issues


- Shared Laterals**
 - Inspection required only on portion of lateral on owner's property and in public right-of-way
- Septic Tanks**
 - Same requirements for inspection as laterals
- Exemptions**
 - Lateral has been installed in past 20 years - 14.46.040 section (D)
 - Line inspected in past 3 years- 14.46.040 with proof of submitted documents

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PERMITS & WAIVERS



- Permit fees associated with a residential lateral repair or replacement which are initiated by a City SLIP letter will be waived.
- When wye replacement is required, wye fees are never waived as it is a service fee for the City's Contractor to install new wye.

Permits	2017 Fee Range	Eligible for Waiver?
Open Trench	\$377 & up	Yes
Bore hole	\$85 & up	Yes
Traffic control	\$300 - \$1300	Yes
Wye Installation	\$725 4" \$745 6"	Never
Backwater Valve (Building Permit)	\$218	No
Clean Out (Building Permit)	\$277	No

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SEWER TAP REPLACEMENT

- Available Days: Tuesdays & Thursdays
- 8:00 AM & 10:00 AM Schedule 1 week in advance at the Public Works Permit Counter
- Standby Fee - \$95 (20 min)
- Cancellation Fee - \$363
 - *Public Works Inspector may cancel the sewer tap if work cannot be completed within the scheduled timeframe.*

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CONTRACTOR SEWER TAP REQUIREMENTS

- All excavations need to have proper shoring in place per Cal OSHA requirements. Unsafe conditions that are in place upon our arrival will be cause to cancel the scheduled appointment and impose rescheduling fees.
- The existing sewer main needs to be completely exposed! This includes 3' upstream and downstream from where the new wye will be placed. The bottom of the pipe also needs to be completely excavated and exposed so there is room to place the wye and repair couplings
- Excavation needs to have a minimum of 18" clear on both sides of the pipe exposed to have proper work space for the installation. This requirement can widen depending on excavation depth and shoring requirements
- Do not break into the existing VCP pipe, fittings or lateral. Excavations that are filled with sewage when we arrive will be cancelled and rescheduled.
- Do not remove any VCP pipe or VCP fittings prior to our arrival, even if the main has a liner in place. Breaking the line may cause fractures in the pipe that could cause for additional placement of pipe, additional excavation, or work beyond the normal scope.

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SEWER LATERAL INSPECTION PROGRAM

INSPECTION STANDARDS AND REQUIREMENTS

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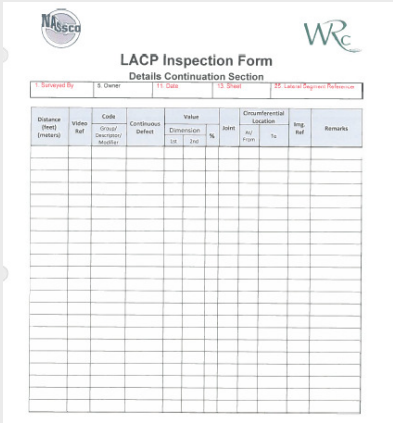
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INSPECTION STANDARDS

What is NASSCO – PACP/LACP?



- (National Association of Sewer Services Companies)
- PACP is the **P**ipeline **A**ssessment **C**ertification **P**rogram (L – Lateral)
- Manages CCTV inspection results
- Benefits of our system based on LACP







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INSPECTION STANDARDS

Benefits of PACP/LACP

- Improves pipe condition grade quality and consistency which improves ability to identify priorities for pipe system rehabilitation and repair.
- Detects changes in pipe condition – Quantitatively measures the difference in lateral condition between one inspection and subsequent inspections.
- Direct, objective and consistent – Consistent and thorough collection of data to simplify a host of wastewater management tasks
- Provides separate rating for structural and O&M defects
- Considers total number of internal pipe defects within pipe segment and *pipe material*not just depth, age, soil and surface condition.
- Widely accepted standard to meet 21st century compliance to meet regulatory requirements.

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CCTV Standards & Requirements

- Available on the City's Sewer Lateral Inspection Program webpage: <http://www.santabarbaraca.gov/gov/depts/pw/resources/slip/default.asp>
- Common reasons for lateral inspection video rejection:
 - Speed (SLOW DOWN !) 20' per minute
 - Missing footage counter
 - Light intensity
 - Dirty lens (smudged)
 - Not identifying defects on inspection form
 - Incomplete inspection form

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SEWER LATERAL INSPECTION PROGRAM

INSPECTION FORM

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PRIVATE SEWER LATERAL INSPECTION REPORT FORM

To be completed by **Certified Company Representative** and submitted to City prior to any repair work.

Customer Name _____ Address _____ Phone _____

Mailing Address _____ Street Address _____ City _____ State _____ Zip Code _____

Company Name _____ Inspector's Name _____ Phone _____

Sewer Usage ☐ Residential ☐ Commercial ☐ Condo Pipe Size _____ Pipe Material _____

CCTV Date _____ Time _____ Camera Direction ☐ With Flow ☐ Against Flow Total Length _____

Please be sure to answer all of the questions below.

Yes _____ No _____ Is Cleanout access outside of building?

Yes _____ No _____ Is there a sewer ejector pump at this property?

Yes _____ No _____ Does private sewer lateral cross neighboring private property?

Yes _____ No _____ Does private sewer lateral connect to City sewer in public right of way?

Yes _____ No _____ Is there more than one structure at this address served by the private sewer lateral?

Yes _____ No _____ Does property have a backwater valve?

Yes _____ No _____ If **YES**, is backwater valve functioning properly?

Yes _____ No _____ If **NO**, does property require a backwater valve per Uniform Plumbing Code 710.1?

Yes _____ No _____ Has property been verified as having no outside drains connected to the sewer system?

Method used to verify no outside drains connected to the sewer system: _____

I certify that the information and video recording I have provided with this form are true and correct.

Inspector's signature _____ Date _____

The information submitted herewith complies with all requirements set forth by the City of Santa Barbara Municipal Code Section 14.46 inclusive. I declare under penalty of perjury that all information submitted here applies to the listed address only.

Plumber's signature _____ Date _____ License # _____

*Forms available on line at www.santabarbaraca.gov/central

COPY TO: ☐ BUILDING & SAFETY ☐ OWNER/DATE ADDRESS (REV 01/11/17)

OBSERVATION CODES			
B	BROKEN	I	INFILTRATION
C	CRACK	O	OFFSET
F	FRACTURE	S	SAG
		R	ROOTS 25%-99% 75%
		OP	CHANGE IN PIPE
		OR	OUT OF ROUND

LATERAL INSPECTION LOG		
DISTANCE	OBSERVATION CODE	REMARKS
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		

BRIEF SUMMARY OF WORK PERFORMED

I certify that the information and video recording I have provided with this form are true and correct.

Inspector's signature _____ Date _____

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Plumber's signature _____ Date _____ License # _____

SHOW FOOTAGE DISTANCE FROM C.O. TO CITY SEWER MAIN

Available on the website:

<http://www.santabarbaraca.gov/gov/depts/pw/resources/slip/default.asp>

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PRIVATE SEWER LATERAL INSPECTION REPORT FORM

To be completed by **Certified Company Representative** and submitted to City prior to any repair work.

Customer Name: _____ Address: _____ Phone: _____
 Mailing Address: _____ Street Address: _____ City: _____ State: _____ Zip Code: _____
 Company Name: _____ Inspector's Name: _____ Phone: _____
 Sewer Usage: ☐ Residential ☐ Commercial ☐ Condo Pipe Size: _____ Pipe Material: _____
 OCTV Date: _____ Time: _____ Camera Direction: ☐ With Flow ☐ Against Flow Total Length: _____

Please be sure to answer all of the questions below.

Yes ____ No ____ Is Cleanout accessible outside of building?

Yes ____ No ____ Is there a sewer ejector pump at this property?

Yes ____ No ____ Does private sewer lateral cross neighboring private property?

Yes ____ No ____ Does private sewer lateral connect to City sewer in public right of way?

Yes ____ No ____ Is there more than one structure at this address served by the private sewer lateral?

Yes ____ No ____ Does property have a backwater valve?

Yes ____ No ____ If **YES**, is backwater valve functioning properly?

Yes ____ No ____ If **NO**, does property require a backwater valve per Uniform Plumbing Code 710.17?

Yes ____ No ____ Has property been verified as having no outside drains connected to the sewer system?

Method used to verify no outside drains connected to the sewer system: _____

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Plumber's signature: _____ Date: _____ License #: _____

Forms available on line at www.santabarbara.ca.gov/interior

COPY TO: ☐ BUILDING SAFETY ☐ OWNER/READDRESS (per 01/11/17)

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PRIVATE SEWER LATERAL INSPECTION REPORT FORM

To be completed by **Certified Company Representative** and submitted to City prior to any repair work.

Customer Name: _____ Address: _____ Phone: _____
 Mailing Address: _____ Street Address: _____ City: _____ State: _____ Zip Code: _____
 Company Name: _____ Inspector's Name: _____ Phone: _____
 Sewer Usage: ☐ Residential ☐ Commercial ☐ Condo Pipe Size: _____ Pipe Material: _____
 OCTV Date: _____ Time: _____ Camera Direction: ☐ With Flow ☐ Against Flow Total Length: _____

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Forms available on line at www.santabarbara.ca.gov/interior

COPY TO: ☐ BUILDING SAFETY ☐ OWNER/READDRESS (per 01/11/17)

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**SUBMITTAL PACKAGE:**

- **Form:**
 - Complete, clean and legible form
- **Inspection Video:**
 - DVD, USB or other Electronic format capable of download by the City
 - Video shall be clear, well lit, in color, traveling no more than 20 ft/min and hold for min. 5 seconds at defects.

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**SMOKE TESTING**

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ROOF AND AREA DRAINS

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BACKWATER VALVE REQUIREMENTS

710.0 Drainage of Fixtures Located Below the Next Upstream Manhole or Below the Main Sewer Level.

710.1 Where a fixture is installed on a floor level that is lower than the next upstream manhole cover of the public or private sewer, serving such drainage piping, shall be protected from backflow of sewage by installing an approved type of backwater valve. Fixtures on floor levels above such elevation shall not discharge through the backwater valve.

Source: Chapter 7 California Plumbing Code (2007)







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BACKWATER VALVES


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CONSTRUCTION METHODS

- Standard Methods:
 - Conventional Dig/Replace Method
 - Pipe Bursting Method
- Methods Requiring Approval:
 - Inversion Lining Method – requires pre-approval (case by case basis) and will require post video.
 - Wye replacement if liner protrudes into City main.



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FUTURE SLIP COMMUNICATION & TRAINING

- Annual certification program training
- Resources on City's SLIP web page:
<http://www.santabarbaraca.gov/gov/depts/pw/resources/slip/default.asp>

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QUESTIONS?



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